CHAPTER I SUMMARY OF ACTIVITIES

The SFWMD established an ambitious schedule of activities in its 2000 update of the DWMP. This schedule called for activities in each of the areas of responsibility in the years following the plan's acceptance. The SFWMD has, for the most part, adhered to the schedule of activities described in the DWMP.

The 2000 update of the DWMP described 91 major activities on which the SFWMD would be working in FY 2001. Of these, 82 are described as ongoing activities with no fixed end date. Of the remaining 10 activities, 5 have been discontinued and 6 are behind the schedule that is described in the 2000 update of the DWMP.

The tables that follow summarize the progress the SFWMD has made on the activities described in the DWMP. Unless otherwise stated, activity summaries cover the period from October 1, 2000 through September 30, 2001, along with any significant accomplishments. The tables are organized by the four areas of responsibility. The areas of responsibility are as follows:

- A. Water Supply
- B. Flood Protection and Flood Plain Management
- C. Water Quality
- D. Natural Systems Management

Programs have been described in the DWMP and in this report within the area of responsibility that is the primary function of the respective program. However, in both philosophy and practice, the SFWMD recognizes the multifunctional, multidisciplinary nature of water management in South Florida. The four areas of responsibility are highly interrelated and the complex interactions are carefully considered within each program and activity. Accordingly, activities may focus on one area of responsibility but have implications in multiple areas of responsibility.

Part A. Water Supply

The water supply portion of the DWMP addresses two core water supply objectives:

Core Objective WS 1: Increase available water supplies and maximize overall water use efficiency to meet identified existing and future needs

Core Objective WS 2: Prevent contamination of water supplies

Table 1. The FY 2001 Status of the DWMP Water Supply Activities

Activity	Status	Comments
Activity	Status	Comments
Core Objective WS 1: Increas identified existing and future ne		ater supplies and maximize overall water use efficiency to meet
and ratare me	,040	Planning
Lower East Coast (LEC) Water Supply Plan Development and Coordination District Contact: Jim Jackson	Plan was completed in FY 2000	The Lower East Coast Regional Water Supply Plan (SFWMD, 2000b) is a long-range strategy for dealing with the future water supply needs of a growing population, as well as the local environment in the LEC Planning Area. The planning area consists of Palm Beach, Broward, and Miami-Dade Counties, as well as portions of Hendry, Collier, and Monroe Counties. The plan projects future water demands for urban areas and agriculture for 2020
Lower West Coast LWC Water Supply Plan Development and Coordination District Contact: Bonnie Kranzer	Plan was completed in FY 2000	and develops strategies to meet those demands while also meeting the needs of the environment. The Lower West Coast Water Supply Plan (SFWMD, 2000c) is a long-range strategy for dealing with the future water supply needs of a growing population, as well as the local environment in the LWC Planning Area. The planning area consists of Lee County, most of Collier and Hendry Counties, and portions of Charlotte, Glades, and Monroe Counties. The plan projects future water demands for urban areas and agriculture for 2020 and develops strategies to meet those demands while also meeting the needs of the environment.
Caloosahatchee Water Management Plan District Contact: Akintunde Owosina	Ongoing	This activity coordinates implementation projects from the Caloosahatchee Water Management Plan (SFWMD, 2000d) approved by the Governing Board in April 2000. The projects are related to the Caloosahatchee River and Estuary, and the river's tributary basins.
Kissimmee Basin Water Supply Plan Development and Coordination District Contact: Chris Sweazy	Plan was completed in FY 2000	The Kissimmee Basin Water Supply Plan (SFWMD, 2000e) is a long-range strategy for dealing with the future water supply needs of a growing population, as well as the local environment in the Kissimmee Basin Planning Area. The planning area consists of portions of Orange, Osceola, Polk, Highlands, Glades, and Okeechobee Counties. The plan projects future water demands for urban areas and agriculture for 2020 and develops strategies to meet these demands while also meeting the needs of the environment.
Northern Palm Beach County Comprehensive Water Resources Management Plan District Contact: Patricia Walker	Draft of final document under review	This subregional plan focuses on the southern L-8 basin, the city of West Palm Beach Water Catchment Area/water supply lake system, and the C-18 basin, which includes the Loxahatchee Slough and the Loxahatchee River, especially the Northwest Fork. The plan projects future water demands for environmental, agricultural, and urban for 2020 and identifies projects that, if built, will bring supplemental water into the area.
Upper East Coast (UEC) Water Supply Plan Development and Coordination District Contact: Sharon Fowler	On schedule	The first water supply plan for the UEC was completed in 1998 (SFWMD, 1998). It is scheduled to be updated in 2004. The update of the UEC Water Supply Plan is incorporating regional water supply plans for Martin and St. Lucie Counties and eastern Okeechobee County. The plan will project future water demands for at least a 20-year planning horizon for urban areas and agriculture, and will develop strategies to meet these demands while meeting the needs of the environment. The plan's strategies and recommendations will incorporate both regional responsibilities (water resource development) and local responsibilities (water supply development), as well as identify potential funding sources.

Activity	Status	Comments
	Pu	blic Works Construction
Ten Mile Creek Critical Project	Revised schedule	Land acquisition for the Ten Mile Creek Critical Project has been completed. Construction is scheduled to begin in FY 2002 and be completed in FY
District Contact: Denise Arrieta		2004.
Western Hillsboro (Site 1) Aquifer	Revised	Since completion of the project management plan in March 2001, the water
Storage and Recovery (ASR) Pilot Project	schedule	quality characterization of the source water has been out sourced and initiated. This task is on the critical path to meet the next milestone, ASR system design, targeted for completion in FY 2003.
District Contact: Rick Nevulis		
L-31N Seepage Management Pilot	Dobind	The draft project management plan, which includes the project budget,
Project	schedule	schedule, and lead responsibilities for project tasks, is under internal review, with final approval expected during FY 2002. The SFWMD's Governing
District Contact:		Board approved early work on a data collection contract during FY 2001.
Art Sengupta Caloosahatchee ASR Pilot Project	Povised	The droft project management plan was completed. Plan enpreyed in
District Contact:	schedule	The draft project management plan was completed. Plan approval is scheduled for FY 2002.
Robert Verrastro		
Water Conservation Area (WCA)- 3A and WCA-3B Seepage Management		This is part of the Western Broward Impoundment Water Preserve Area Project. It is scheduled to begin in FY 2002.
District Contact: Max Day		
Broward County Secondary Canal		This project is scheduled to begin in FY 2002.
System District Contact:	not yet started	
District Contact: Susan Ray		
C-23 and C-24 Basins Water	On schedule -	This is part of the Indian River Lagoon Project. It is scheduled to begin in
Preserve Area	not yet started	
District Contact: David Unsell		
Lake Belt Technology Pilot Project District Contact:	Behind schedule	A contract for early data collection was solicited during FY 2001. Scheduling, costing, and resource allocation are in progress and the project management plan is scheduled to be completed in FY 2002.
Paul Linton		
Southern L-8 In-Ground Reservoir	On schedule	This is part of the North Palm Beach County - Part 1 Project. Work is in progress to complete the project management plan in FY 2002. Approval
District Contact:		was granted to move forward with work on the L-8 test reservoir prior to approval of the project management plan in order to capture and store water
Michael Voich		for the upcoming dry season and to gather data necessary for the project implementation report.
Flows From WCA-3 to the Central Lake Belt Area	not yet started	This is part of the Diverting WCAs Flows to Central Lake Belt Storage to Downstream Natural Areas Project. It is scheduled to begin in FY 2009.
Flows From Central Lake Belt		This is part of the Diverting WCAs Flows to Central Lake Belt Storage to
Storage Area to WCA-3B		Downstream Natural Areas Project. It is scheduled to begin in FY 2009.
Eastern Hillsboro ASR Project	On a revised schedule	This project includes the installation of one 5.0-million gallons per day (mgd) ASR well, one upper Floridan aquifer monitoring well, five surficial aquifer
District Contact:		supply wells, and raw water piping to convey water from the surficial wells
Pete Kwiatkowski LEC Water Supply Development	Ongoing	to the ASR well. The Lower East Coast Regional Water Supply Plan (SFWMD, 2000b) will
Implementation		be implemented by 1) using regional and local water supply planning efforts to predict when alternative sources will be needed and to provide guidance
District Contact: Jim Jackson		as to which source may be most appropriate for meeting the particular needs of each user; 2) conducting appropriate hydrologic and ecological studies to identify the freshwater input needs of the Lake Worth Lagoon; and 3) encouraging the use of any permittable alternative water supply
		option which would achieve a reduction in saltwater intrusion.
Miami-Dade County ASR	On a revised schedule; to	The Miami-Dade County ASR Project will use excess wellfield capacity available from existing wellfields in the surficial aquifer during the wet
District Contact: Pete Kwiatkowski	be carried out in FY 2003 - FY 2005	season to provide water for storage in the Upper Floridan Aquifer System. This water will later be recovered during the dry season to reduce the demands of the utility wellfields on the surficial aquifer.

Capital Program Ongoing The Capital Program includes capital improvements, modifications, or repa to District Contact: Vince Loehrlein and Zan Kuglar Vince Loehrlein and Zan Kuglar Vince Loehrlein and Ean Kuglar Vince Loehrlein Loehrlein Englein and Interest Ean Kuglar Vince Loehrlein Englein and Interest Ean Kuglar Vince Loehrlein Englein Ean Kuglar Vince Loehrlein Englein E	Activity	Status	Comments
District Contact: Vince Loehrlein and Zan Kuglar Kissimmee Basin Water Resource Development Implementation District Contact: Chris Sweazy District Contact: Chris Sweazy District Contact: Donnie Kranzer UEC Water Resource Development Implementation District Contact: Donnie Kranzer UEC Water Resource Development Implementation District Contact: Lake Istokpoga Regulation Schedule on tyet started District Contact: Lewis Horrung District Contact: Lewis Horrung District Contact: District Contact	·		The Capital Program includes capital improvements, modifications, or repairs
Vince Loehrlein and Zan Kuglar was needed to evaluate the specifications for the contract. Was needed to evaluate the specifications for the contract. This activity is for the implementation of the regional water resour development Implementation of the regional water resour development projects recommended in the Kissimmee Basin Water Supp Plan (SFWMD, 2000e). Among the projects being completed under it activity are: reclaimed injection pilot project, aquifer recharge enhancement project, development of a management plan for the Lake Istokpoga/India Prairie Basin, and numerous hydrologic, geologic, and ground water model studies LWC Water Resource Development Implementation Ungoing Implementation Prairie Pasin, and numerous hydrologic, geologic, and ground water model studies This activity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Plan (SFWMD, 2000c). Water Cantact:		0 0	to District water control and conveyance facilities. The S-7 and S-8 Projects
Was needed to evaluate the specifications for the contract.	District Contact:		were carried over due to the size of the project. An engineering consulting firm
Kissimmee Basin Water Resource Development Implementation District Contact: Chris Sweazy Ongoing District Contact: Chris Sweazy Ongoing District Contact: Chris Sweazy Ongoing LWC Water Resource Development Implementation District Contact: Chris Sweazy Ongoing District Contact: Chris Sweazy Ongoing Chris Sweazy Ongoing District Contact: Chris Sweazy Ongoing District Contact: Contact: District Contact: Law Ibour Maintenance Ongoing District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung This activity is for the implementation plice tropicet, aquifer resource development project, development of a management plan for the Lake Istokpogal/ndi Prairite Basin, and numerous hydrologic, geologic, and ground water medel is tudies This activity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Plan (SFWMD, 2000c). This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Plan (SFWMD, 2000c). This activity is for the management of the cash reserves for the implementation of the CERP. District Contact: Lewis Hornung This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is project culverts, and special construction	Vince Loehrlein and Zan Kuglar		
Development Implementation development projects recommended in the Kissimmée Basin Water Supple Plan (SFWMD, 2000e). Among the projects being completed under it activity are: reclaimed injection pilot project, aquifer recharge enhanceme project, development of a management plan for the Lake Istokpoga/India Easin, and numerous hydrologic, geologic, and ground water model studies LWC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel Devations and Maintenance District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung Structure Operations Ongoing This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. District Contact: Lewis Hornung Structure Operations Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Equipment Maintenance Ongoing This activity is for the maintenance of canals and levees, includire placement of project removal. Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Kissimmee Basin Water Resource	Ongoing	·
District Contact: Chris Sweazy Chris Chris Chris Chris Sweazy Chris Sweazy Chris Sweazy Chris Sweazy Chris Sweazy Chris Sweazy Chris Chris Chris Chris Chris Sweazy Chris Sweazy Chris Sweazy Chris Chris Chris Chris Chris Sweazy Chris Sweazy Chris Chris Chris Chris Chris Chris Sweazy Chris Chr		G.1.gG.1.g	
Activity are: reclaimed injection pilot project, aquifer recharge enhanceme project, development of a management plan for the Lake Istokpoga/Indi Prairie Basin, and numerous hydrologic, geologic, and ground water modell studies LWC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel Operations and Maintenance District Contact: Steve Reel Operations and Maintenance District Contact: Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Projectianal system. Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment Maintenance Ongoing Equipment Maintenance Ongoing CaralyLevee Maintenance Ongoing Equipment Maintenance Ongoing	, , , , , , , , , , , , , , , , , , , ,		
Chris Sweazy project, development of a management plan for the Lake Istokpoga/Indi Prairie Basin, and numerous hydrologic, geologic, and ground water modeli studies ILWC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation In Sactivity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Plan (SFWMD, 2000c). This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Plan (SFWM 1998). District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Siteve Reel Operations and Maintenance Lake Istokpoga Regulation Schedule on tyet started District Contact: Lewis Hornung Structure Operations Ongoing Structure Operations Ongoing Water Control Structure Maintenance Ongoing This activity is for the management of the cash reserves for the implementation of the CERP. District Contact: Lewis Hornung Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project and system. Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal Levee Maintenance Ongoing Frairie Basin, and numerous projects activity is for the maintenance of canals and levees, includir replacement of project culverts, bank stabilization, revegetation, mowing, tremoval, and shoal removal. Equipment Maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	District Contact:		
Prairie Basin, and numerous hydrologic, geologic, and ground water model studies LWC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Bonnie Kranzer This activity is for the implementation of regional water resource development projects recommended in the *Lower West Coast Water Supply Plan* (SFWMD, 2000c). This activity is for the implementation of regional water resource development projects recommended in the *Upper East Coast Water Supply Plan* (SFWMD, 1998). This activity is for the implementation of regional water resource development projects recommended in the *Upper East Coast Water Supply Plan* (SFWMD, 1998). This activity is for the management of the cash reserves for the implementation of the CERP. District Contact: Steve Reel Operations and Maintenance Lake Istokpoga Regulation Schedule not yet started District Contact: Lewis Hornung Structure Operations Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, includir replacement of project culverts, bank stabilization, revegetation, mowing, tremoval, and shoal removal. Equipment Maintenance Ongoing Equipment Maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Chris Sweazv		
Studies In this activity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Pt (SFWMD, 2000c).	,		
This activity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Pt (SFWMD, 2000c). District Contact: Bonnie Kranzer UEC Water Resource Development Implementation Ongoing Implementation This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Ptan (SFWMD, 2000c). This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Ptan (SFWMD, 1998). This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Ptan (SFWMD, 1998). This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Ptan (SFWMD, 1998). This activity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Ptan (SFWMD, 2000c). This activity is for the implementation of regional water resource development projects recommended in the Lower West Coast Water Supply Ptan (SFWMD, 2000c). This activity is for the management of the cash reserves for the implementation of the CERP. District Contact:			
Implementation District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel District Contact: Steve Reel District Contact: Lewis Hornung Structure Operations District Contact: Lording Structure Operations District Contact: Lording Structure Operations District Contact: District Contact: Lewis Hornung District Contact: District Contact: Lording Structure Operations District Contact: District Contact: Lewis Hornung District Contact: Lording Structure Operations District Contact: District Contact: Lording Structure Operations District Contact: District Contact: District Contact: Lording Structure Operations District Contact: Lindell Williams Canal/Levee Maintenance Ongoing District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	I WC Water Resource Development	Ongoing	
District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel Operations and Maintenance District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung District Contact: Lowis Hornung District Contact: Lindell Williams Canal/Levee Maintenance District Contact: Lindell Williams Equipment Maintenance Ongoing This activity is for the implementation of regional water resource developme projects recommended in the Upper East Coast Water Supply Plan (SFWM 1998). This activity is for the management of the cash reserves for the implementation of the CERP. District Contact: Lewis Hornung District Contact: Lewis Hornung District Contact: Lindell Williams Canal/Levee Maintenance Dongoing District Contact: Lindell Williams Equipment Maintenance Ongoing District Contact: Lindell Williams Equipment Maintenance Ongoing District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.		G.1.gG.1.g	
District Contact: Bonnie Kranzer UEC Water Resource Development Implementation District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Real Operations and Maintenance District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung Structure Operations Water Control Structure Maintenance Ongoing This activity is for the management of the cash reserves for the implementation of the CERP. This project is scheduled to begin in FY 2002. Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing District Contact: Lindell Williams Canal/Levee Maintenance Ongoing District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.			
Bonnie Kranzer UEC Water Resource Development Implementation Ongoing This activity is for the implementation of regional water resource development projects recommended in the Upper East Coast Water Supply Plan (SFWM 1998).	District Contact:		(
UEC Water Resource Development Implementation Impleme			
Implementation District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel Operations and Maintenance Lake Istokpoga Regulation Schedule onty et started District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung Structure Operations District Contact: District Contact: Lewis Hornung Structure Operations District Contact: District Contact: Lewis Hornung District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance District Contact: Lindell Williams Canaly Levee Maintenance Ongoing District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.		Ongoing	This activity is for the implementation of regional water resource development
District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel Operations and Maintenance Lake Istokpoga Regulation Schedule not yet started District Contact: Lewis Hornung Structure Operations District Contact: Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing District Contact: Lindell Williams Canal/Levee Maintenance Ongoing Inis activity is for the management of the cash reserves for the implementation for the CERP. This project is scheduled to begin in FY 2002	-	G.1.gG.1.g	
District Contact: Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel District Contact: Lake Istokpoga Regulation Schedule not yet started District Contact: Lewis Hornung Structure Operations District Contact: Tommy Strowd Water Control Structure Water Control Structure Maintenance Ongoing This activity is for the management of the cash reserves for the implementation of the CERP. This project is scheduled to begin in FY 2002. This project is scheduled to begin in FY 2002. Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	pierrietriader.		
Sharon Fowler Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel Coperations and Maintenance Lake Istokpoga Regulation Schedule onty yet started District Contact: Lewis Hornung Structure Operations District Contact: Lewis Hornung Structure Operations District Contact: Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the management of the cash reserves for the implementation of the CERP. This project is scheduled to begin in FY 2002. Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project and system. This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Equipment Maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	District Contact:		
Comprehensive Everglades Restoration Plan (CERP) Reserves District Contact: Steve Reel On schedule not yet started District Contact: Lewis Hornung Structure Operations District Contact: Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the management of the cash reserves for the implementation of the CERP. This project is scheduled to begin in FY 2002. This proj			
Restoration Plan (CERP) Reserves District Contact: Steve Reel District Contact: Steve Regel District Contact: Lake Istokpoga Regulation Schedule On schedule - not yet started District Contact: Lewis Hornung Structure Operations District Contact: Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including treplacement of project culverts, bank stabilization, revegetation, mowing, tremoval, and shoal removal. Equipment Maintenance Ongoing Tothe CERP. One of the Central and Southern Florida (C&SF) Project activities, and automation for the Central and Southern Florida (C&SF) Project and system. This activity is for water control structure maintenance, including District pure stations, structures, project culverts, and special construction projects determined. Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, tremoval, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.		Ongoing	This activity is for the management of the cash reserves for the implementation
District Contact: Steve Reel Coperations and Maintenance		G.1.gG.1.g	
Steve Reel Operations and Maintenance	(,		
Steve Reel Operations and Maintenance	District Contact:		
Lake Istokpoga Regulation Schedule On schedule not yet started District Contact: Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Projecanal system. Tommy Strowd Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District purstations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including Post of the maintenance of canals and levees,	Steve Reel		
Lake Istokpoga Regulation Schedule not yet started District Contact: Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Ongoing Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District purstations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, tremoval, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.		Ope	erations and Maintenance
District Contact: Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Ongoing This activity is for water control structure maintenance, including District purn stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including point replacement of project culverts, bank stabilization, revegetation, mowing, tremoval, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Lake Istokpoga Regulation Schedule		
District Contact: Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for water control structure maintenance, including District purstations, structures, project culverts, and special construction projects determined. Ongoing This activity is for the maintenance of canals and levees, including posterior to the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, the removal, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	Zano iotoripoga i togaliano Combanio		
Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Tommy Strowd Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District purstations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including project culverts, and special construction projects determined. District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.		or yor olariou	
Lewis Hornung Structure Operations Ongoing Structure operations include the movement of water, pumping operation activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Tommy Strowd Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District purstations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including project culverts, and special construction projects determined. District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	District Contact:		
activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. This activity is for the maintenance of canals and levees, including point replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Lewis Hornung		
activities, and automation for the Central and Southern Florida (C&SF) Project canal system. Tommy Strowd Water Control Structure Maintenance District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. This activity is for the maintenance of canals and levees, including point replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Structure Operations	Ongoing	Structure operations include the movement of water, pumping operations
Tommy Strowd Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, the removal, and shoal removal. Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	•	0 0	activities, and automation for the Central and Southern Florida (C&SF) Project
Tommy Strowd Water Control Structure Maintenance Ongoing This activity is for water control structure maintenance, including District pur stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, troplacement of project culverts, bank stabilization, revegetation, mowing, troplacement Maintenance Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	District Contact:		canal system.
Maintenance stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	Tommy Strowd		,
Maintenance stations, structures, project culverts, and special construction projects determined. District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	Water Control Structure	Ongoing	This activity is for water control structure maintenance, including District pump
District Contact: Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance as restoration of a variety of equipment.	Maintenance		stations, structures, project culverts, and special construction projects as
Lindell Williams Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance as restoration of a variety of equipment.			determined.
Canal/Levee Maintenance Ongoing This activity is for the maintenance of canals and levees, including replacement of project culverts, bank stabilization, revegetation, mowing, to removal, and shoal removal. Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance as restoration of a variety of equipment.	District Contact:		
replacement of project culverts, bank stabilization, revegetation, mowing, tr removal, and shoal removal. Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Lindell Williams		
District Contact: Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.	Canal/Levee Maintenance	Ongoing	This activity is for the maintenance of canals and levees, including
Lindell Williams Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance a restoration of a variety of equipment.			replacement of project culverts, bank stabilization, revegetation, mowing, tree
Equipment Maintenance Ongoing Equipment maintenance consists of preventive and cyclic maintenance are restoration of a variety of equipment.	District Contact:		removal, and shoal removal.
restoration of a variety of equipment.	Lindell Williams		
, , , ,	Equipment Maintenance	Ongoing	Equipment maintenance consists of preventive and cyclic maintenance and
District Contact:			restoration of a variety of equipment.
Diothic Contact.	District Contact:		
John Adams			
Electronics, Communications, and Ongoing District communication, electronics, and control devices must be developed	Electronics, Communications, and	Ongoing	District communication, electronics, and control devices must be developed,
	Control Device		installed, supported, and maintained. These include supervisory control and
data acquisition (SCADA) system devices, microwave system devices, a			data acquisition (SCADA) system devices, microwave system devices, and
District Contact: District radio communication components.	District Contact:		District radio communication components.
Nancy Little	Nancy Little		
Exotic Plant Ongoing Invasive exotic aquatic and terrestrial vegetation within District canals, car	Exotic Plant	Ongoing	Invasive exotic aquatic and terrestrial vegetation within District canals, canal
	Control		banks, lakes, rights-of-way, and preserve lands must be controlled. This
			control is accomplished through in-house and contracted herbicidal,
			mechanical, and biological control methods. This program works primarily to
Dan Thayer ensure conveyance capacity within canals and water bodies.	Dan Thayer		ensure conveyance capacity within canals and water bodies.
General Maintenance Ongoing This activity provides preventative maintenance and repairs to District fix	General Maintenance	Ongoing	This activity provides preventative maintenance and repairs to District fixed
and mobile equipment to ensure operation of the District water control syste		-	and mobile equipment to ensure operation of the District water control system
District Contact: and provides maintenance and repairs to District field facilities.	District Contact:		and provides maintenance and repairs to District field facilities.
Albert Basulto	Albert Basulto		

Activity	Status	Comments
Central and Southern Florida	Ongoing	This activity includes, but is not limited to, (a) regional modeling support for the
(C&SF) Project Operational	ogog	District and the United States Army Corp of Engineers (USACE) to develop
Planning		and implement short-term and/or routine operational procedures (e.g.,
D		implementation of the Water Supply and Environment [WSE] schedule for
District Contact:		Lake Okeechobee); (b) development of rain-driven operating rules
Luis Cadavid		recommended for the Everglades by the Lower East Coast Regional Water
		Supply Plan and the CERP; (c) development of operational modifications
		recommended in the Lower East Coast Regional Water Supply Plan
		(SFWMD, 2000b) (e.g., supply-side management modifications, rain-driven
		operations); and (d) development of operational plans for components of the
		Lower East Coast Regional Water Supply Plan and the CERP.
	1	Regulation
Water Use Permitting	Ongoing	This program involves the review of water use permit applications. The
		objective is to ensure safe, efficient, equitable, and reliable development of the
District Contact:		state's water resources. The major components are 1) review and prepare
Scott Burns		recommendations for permit applications for all consumptive uses of water
		within the District boundaries, 2) provide postpermit compliance checks on
		priority projects based on staffing resources, and 3) review and issue well
		construction permits for specific water wells within the District boundaries.
		Water use permitting also includes permit planning, permit issuance, dispute
	1	resolution, mitigation support, technical support for enforcement,
		communication with the water supply planning activities of this agency, and
		criteria and rule development.
Revise Consumptive Use Permitting	Ongoing	The last time District water use rules were substantially modified was in 1993,
(CUP) Rules		when the water conservation rules were updated. Since that time, numerous
		changes in legislation, District policy, and the development of the regional
District Contact:		water supply planning process have caused District staff to reexamine the
Debra Goss		agency's water use rules. Some of the proposed changes will consist of
Debia Good		administrative updates, while others involve technical criteria changes that
		relate to the implementation objectives of the District's regional water supply
		plans.
	1	Outreach
Hillsboro (East) ASR Pilot	Nearing	A pilot regional ASR project will be located west of U.S. 441 along the
	completion	Hillsboro Canal, through cooperation with Palm Beach County. This project is
District Contact:	-	associated with the development of a new wellfield to serve Palm Beach
Pete Kwiatkowski		County's Water Treatment Plant Number 9.
LEC Water Supply Development	Ongoing	The Lower East Coast Regional Water Supply Plan (SFWMD, 2000b) will be
Implementation	Origonia	implemented by 1) using regional and local water supply planning efforts to
Implementation		predict when alternative sources will be needed, and to provide guidance as
Biotoist Constant		
District Contact:		to which source may be most appropriate for meeting the particular needs of
Jim Jackson		each user; 2) conducting appropriate hydrologic and ecological studies to
		identify the freshwater input needs of the Lake Worth Lagoon; and 3)
		encouraging the use of any permittable alternative water supply option which
		would achieve a reduction in saltwater intrusion.
Miami-Dade County ASR	On a revised	The Miami-Dade County ASR uses excess wellfield capacity available from
1	schedule; to	existing wellfields in the Surficial Aquifer System during the wet season to
District Contact:	be carried out	provide water for storage in the Upper Floridan Aquifer System. This water will
Pete Kwiatwkowski	in FY 2003 -	then be subsequently recovered to reduce the demands of the utility wellfields
l ete Kwiatwkowski		
LMC Water County Development	FY 2005	on the surficial aquifer during the dry season.
LWC Water Supply Development	Ongoing	This activity will evaluate LWC alternative water supply sources, or
Implementation]	combination of alternatives, with local water users to find the combination that
	1	best suits local requirements and conditions.
District Contact:		
Bonnie Kranzer		
Alternate Water Supply (AWS)	Ongoing	AWS Cooperative Projects annually provide for the following: the receipt of
Cooperative Projects	9519	AWS project applications; the review, ranking, and Governing Board approval
- Cooperation rejecto]	of the proposed contract awards; execution of the contractual agreements; and
District Contact:		
District Contact:	1	the development of annual reports to the Florida Legislature. This program was
Jane Bucca		significantly cut back in FY 2001 to provide funding for the CERP.
Water Conservation	On a revised	The District's water conservation efforts, also called demand management,
	schedule	refers to water use practices and technologies that provide the services
District Contact:	1	desired by the users while using less water. The District's Demand
Michelle Pearcy		Management Program incorporates water supply planning, regulation, and
	1	supplemental measures in order to cultivate a conservation ethic in cooperation
	1	with water users.
	l .	WILLI WALCI USCIS.

Status	Comments
ı	onitoring and Evaluation
Ongoing	Regional and subregional modeling to support the implementation of recommendations from the Lower East Coast Regional Water Supply Plan (SFWMD, 2000b) and their associated regulatory/rulemaking activities. These
	regulatory/rulemaking activities include reservations of water for natural systems and minimum flows and levels (MFLs). Efforts will also include preregulatory modeling for water users.
Ongoing	This activity provides fundamental hydrogeologic support across many programs including 1) the development and maintenance of a well inventory, 2) lithologic application to store hydrogeologic information collected by the
	District, and 3) the United States Geological Survey (USGS) Cooperative Agreement Program. The USGS Cooperative Agreement Program is jointly funded and includes 12 hydrogeologic water resources investigations which support implementation of the recommendations made in the Lower East Coast Regional Water Supply Plan (SFWMD, 2000b).
Discontinued	Initial attempts to capture large amounts of project information on a universal basis were not successful, and Dz03 was essentially rolled into the activities
	that it was designed to support. Quarterly reporting of the status of each water supply plan recommendation is proposed for FY 2002, and this activity will be included with other water supply planning support functions.
contamination	of water supplies
ı	Regulation
Ongoing	Water use permitting (consumptive use permitting) is a state mandated program assigned exclusively to the water management districts. The objective is to ensure safe, efficient, equitable, and reliable development of the state's water resources. The major components are 1) review and prepare recommendations for permit applications for all consumptive uses of water within the District boundaries; 2) provide postpermit compliance checks on priority projects based on staffing resources (approximately 300 projects per
	year); 3) review and issue well construction permits for specific water wells within District boundaries; and 4) perform water conservation rulemaking analysis and make recommendations. This activity also includes prepermit planning, permit issuance, dispute resolution, litigation support, technical support, enforcement, communication with water supply planning activities of this agency, and criteria and rule development.
l .	Outreach
Ongoing	Local government comprehensive plans and amendments, and water control plans of drainage districts are reviewed by the District as required by Chapters
	163 and 298, F.S. This review activity was significantly cut back during FY 2001 to provide funding for the CERP.
Ongoing	Liaison with local county and city governments and agencies, including Chapter 298 Districts.
Ongoing	On November 29, 2000, the Governing Board declared a major water shortage due to the extended drought. Phase I emergency water shortage orders were
	issued for the LWC area on this date and on December 8, 2000 for the LEC area. On January 19, 2001, these Phase I restrictions were upgraded to Phase II severe water shortage restrictions. Because of continued drought conditions, on March 28, 2001, the District initiated modified Phase II emergency water shortage restrictions applicable to the LWC and LEC Areas. The drought conditions also affected inland agricultural areas and various water use restrictions were ordered in those areas. Because of favorable water resource conditions, water shortage orders were rescinded on October 11, 2001, for all areas of the District, except for certain portions of Orange County.
	Ongoing Ongoing Discontinued Contamination Ongoing Ongoing Ongoing

Activity	Status	Comments
Wellhead Protection Programs	As needed	The FDEP has a number of regulations under the Florida Administrative Code that function to regulate hazardous and solid waste, stormwater discharges, storage tank systems, etc. The primary goal of these legislative policies is to prevent problems before they occur, as contrasted to correcting or providing remedial action for preexisting problems. The intent of these ordinances is to protect and safeguard the health, safety, and welfare of the public by providing criteria for regulating and prohibiting the use, handling, production, and storage of certain deleterious substances that may impair present and future public water supply wells and wellfields. The District has and will continue to provide assistance to local governments in the preparation of their wellfield protection ordinances. No wellhead protection activity has occurred since the last update of the DWMP.
Recharge Mapping	As needed	As directed by Chapter 373, F.S., the SFWMD provides ground water recharge information to local governments to assist them with the development and implementation of appropriate water resource policies. In order to accomplish this, the SFWMD undertook a project to map recharge areas within its four planning regions. This effort was completed in 1995. The maps delineate precipitation recharge and leakage rates for all the primary public water supply aquifers utilized throughout South Florida. The District has and will provide assistance to local governments in the delineation of prime recharge areas in order to implement voluntary tax assessment programs (under the Bluebelt Act) that protect the state's prime recharge areas. No recharge mapping was performed since the last update of the DWMP.
	N	Ionitoring and Evaluation
Wetland Criteria Development and Support	Ongoing	This activity supports the Regulation Program in developing a scientific basis for wetland protection criteria used in water use and environmental resource permitting. The activity was originated at the direction of the Governing Board
District Contact: Debbie Goss		and Executive Office to develop a research and monitoring program to investigate impacts to wetlands caused by water table drawdown and to develop specific recommendations for drawdown criteria that prevent significant adverse impacts. This information is needed to support rulemaking for the LWC and UEC planning regions and is a critical element in the implementation of the water supply plans for both regions.

Part B. Flood Protection and Floodplain Management

Historically, flood protection has been at the core of the District's activities. The SFWMD was originally established in 1949 as the Central and Southern Florida Flood Control District. The Flood Protection and Floodplain Management portion of the DWMP is divided into two core objectives:

Core Objective FP 1: Minimize damage from flooding

Core Objective FP 2: Promote nonstructural approaches to achieve flood protection,

and to protect and restore the natural features and functions of

the 100-year floodplain

Table 2. The FY 2001 Status of the DWMP Flood Protection and Floodplain Management Activities

Activity	Status	Comments
Core Objective FP 1: Minimize	damage from flooding	
	o damago nom nooding	Planning
Big Cypress Basin Watershed Project (Big Cypress Watershed Management Plan) District Contact: Ananta Nath	Ongoing	The Big Cypress Basin Watershed Management Plan includes development of a set of calibrated hydrologic-hydraulic models and ecologic assessment of an approximately 1,200-square mile area of western Collier watershed and incorporation of engineering, economic, and environmental analyses of alternative water management strategies to formulate continuing plans and road maps for capital projects in the Big Cypress Basin.
South Lee County Watershed Plan District Contact: Akintunde Owosina	Ongoing	Severe flooding in 1995 raised the issue of water flows in southern Lee County. The South Lee County Watershed Plan addresses this issue. The work in this project will involve three phases. During Phase I, the necessary background data will be obtained and hydrologic and hydraulic models of the study area will be developed. During Phase II, the ecological value of the study area will be assessed and the target hydrologic parameters for restored conditions will be identified. During Phase III, models will be applied to evaluate the performance of existing water management facilities in the study area, existing problems will be identified, and alternative facilities and systems will be developed and assessed.
	Public	Works Construction
Capital Program District Contact: Vince Loehrlein and Zan Kugler Modified Water Delivery Project	Ongoing On schedule	The Capital Program includes capital improvements, modifications, or repairs to District water control and conveyance facilities. The S-7 and S-8 Projects were carried over due to the size of the project. An engineering consulting firm was needed and recommended to evaluate the specifications for the contract. The Modified Water Deliveries Project is designed to restore the hydrologic balance between western Shark River Slough and northeastern Shark River
District Contact:		Slough, to benefit Everglades National Park flora and fauna. The detail design
Dave Swift C-111 Project Implementation District Contact: Lisa Smith	On schedule	of the recommended plan has been initiated. The C-111 Project consists of both structural and nonstructural modifications to the existing works within the C-111 Basin to promote more natural hydroperiods in Taylor Slough and the eastern panhandle ecosystems of Everglades National Park. Flood protection within the C-111 Basin east of the L-31N and C-111 canals will be maintained. In FY 2001, 90% of the land acquisition was completed and the general reevaluation report supplement is under development.
Kissimmee River Restoration Engineering Design and Implementation District contact: Paul Whalen	Ongoing	This activity supports the District's participation with the USACE in the analysis and design of project construction elements for meeting flood protection constraints and ecosystem restoration goals for the Kissimmee River Restoration Project. This project should be completed in 2011.

Activity	Status	Comments
* *	l .	ions and Maintenance
Structure Operations	Ongoing	Structure operations include the movement of water, pumping operations
Chaotare Operations		activities, and automation for the C&SF Project canal system.
District Contact:		
Tommy Strowd		
Water Control Structure	Ongoing	Water control structure maintenance includes District pump stations,
Maintenance		structures, project culverts, and special construction projects.
District Contact:		
Lindell Williams		
Canal/Levee Maintenance	Ongoing	Canals and levees must be maintained. Maintenance includes replacement
		of project culverts, bank stabilization, revegetation, mowing, tree removal,
District Contact:		and shoal removal.
Lindell Williams		
Equipment Maintenance	Ongoing	Equipment maintenance consists of preventive and cyclic maintenance and
District Occupant		restoration of a variety of equipment for the regional flood control systems.
District Contact:		
John Adams	0	Photos and the state of the sta
Electronics, Communications, and Control Devices	Ongoing	District communication, electronics, and control devices must be developed,
Control Devices		installed, supported, and maintained. These include SCADA system devices, microwave system devices, and District radio communication
District Contact:		components.
Nancy Little		components.
Exotic Plant Control	Ongoing	Invasive exotic aquatic and terrestrial vegetation within District canals, canal
Exotion lant control	Crigoria	banks, lakes, rights-of-way, and preserve lands must be controlled. This
District Contact:		control is accomplished through in-house and contracted herbicidal,
Dan Thayer		mechanical, and biological control methods. This program works primarily
		to ensure conveyance capacity within canals and water bodies.
Right-of-Way Management	Ongoing	Right-of-Way Management involves the management of uses of District
		rights-of-way by means of permitting and enforcement initiatives designed
District Contact:		to minimize outside impacts on the District's ability to operate and maintain
Tom Fratz		the canal and levee system.
Emergency Management	As needed	The mission of the District's Emergency Management Program is to prevent
		or minimize, prepare for, respond to, and recover from emergencies or
District Contact:		disasters that threaten life or property within the boundaries of the District.
Olivia McLean		These activities ensure that the District can accomplish its mission during
		adverse conditions. The District also works closely with, and offers support
		to, local and state emergency managers to prepare for and assist with man-
		made hazards, dam failures, nuclear power plant failures, fires, storms, and
		a number of other types of emergencies within Florida.
	Ia .	Regulation
Environmental Resource	Ongoing	This ongoing activity involves the review of environmental resource permit
Permitting (ERP)		applications. It includes the following:
District Contact:		Technical engineering and environmental review and evaluation of
District Contact:		construction and conceptual plans for proposed development activities
Terrie Bates		Recommendations for project design changes to ensure proposed activities most District exitoria for flood water quality and
		activities meet District criteria for flood, water quality, and environmental protection
		Negotiations with permit applicants
		Field inspections of project sites requesting permits or wetland
		determinations
		Review of wetland mitigation plans
		Preparation of requests for additional information
		 Compliance review of permitted sites Compliance review of submitted documents required by permit special
		Compliance review of submitted documents required by permit special conditions
	l	Administrative and automation support critical to the ERP Program Outspeed Outs
Lead Dies Deview	0	Outreach
Local Plan Review	Ongoing	Local government comprehensive plans and amendments, and water
District Contact:		control plans of drainage districts are reviewed by the District as required by
		Chapters 163 and 298, F.S. This review activity was significantly cut back
P.K. Sharma	[during FY 2001 to provide funding for the CERP.

Activity	Status	Comments
-	Moi	nitoring and Evaluation
Flood Control Level of Service	Discontinued	Funding was not available for this activity.
Basin Flood Studies	Ongoing	This activity consists of basin flood studies in the C-17 and C-51 Basins. The C-17 Basin Study will investigate increasing flood mitigation and
District Contact: Ken Konyha		conveyance capacity of the C-17 Canal and the S-44 Structure without adversely affecting the receiving water body (Lake Worth Lagoon). The C-51 Basin Study will reevaluate the C-51 Basin Rule (surface water management permitting criteria). The C-11 and C-4 Basins are also being studied. The C-4 forward pumping station has been constructed and will be operational for the 2002 wet season.
Core Objective FP 2: Promonatural features and functions		roaches to achieve flood protection, and to protect and restore the dplain
	•	Land Acquisition
Stewardship Save Our River (SOR) Lands	Ongoing	SOR stewardship activities include planning and implementing a stewardship work plan, administering a land acquisition plan, administering a public use rule, and administering mitigation banks/projects.
General Land Acquisition	Ongoing	This activity involves the acquisition of lands in support of District programs for water management, water supply, and the conservation and protection of water resources.
		Regulation
Environmental Resource Permitting (ERP)	Ongoing	This ongoing activity involves the review of environmental resource permit applications. It includes the following: Technical engineering and environmental review and evaluation of
District Contact: Terrie Bates		construction and conceptual plans for proposed development activities Recommendations for project design changes to ensure proposed activities meet District criteria for flood, water quality, and environmental protection Negotiations with permit applicants Field inspections of project sites requesting permits or wetland determinations Review of wetland mitigation plans Preparation of requests for additional information Preparation of technical staff reports Compliance review of permitted sites Compliance review of submitted documents required by permit special conditions

Part C. Water Quality

The water quality section of the DWMP addresses efforts to ensure that water quality standards are met throughout the SFWMD. The DWMP utilizes two core water quality objectives:

Core Objective WQ 1: Protect and improve surface water quality

Core Objective WQ 2: Protect and improve ground water quality

Table 3. The FY 2001 Status of the DWMP Water Quality Activities

Activity	Status	Comments	
Coro Objective WO 1: Protect	and improve ourfees w	otor quality	
Core Objective WQ 1: Protect	and improve surface w	Planning	
Kissimmee Basin Plan	Discontinued	This activity was eliminated due to budget constraints.	
Development	Discontinued	This activity was eliminated due to budget constraints.	
Florida Bay Feasibility Study District Contact: Dewey Worth	Revised schedule	The Florida Bay and Florida Keys Feasibility Study will determine the types of modifications that are needed to successfully restore and protect the water quality and ecological conditions of the Florida Bay and the Florida Keys' reef tract. The study will evaluate the quantity, timing, distribution, and quality of fresh water that should flow to Florida Bay and provide recommendations for any modification of water deliveries that are expected as a result of the implementation of Everglades restoration programs. The draft project	
		management plan was completed in 2001 and a public/stakeholder workshop has been conducted. The project management plan will be completed in FY 2002	
Comprehensive Integrated Water Quality Plan	Not a District project	The Comprehensive Integrated Water Quality Plan is being developed and implemented by the FDEP, not the District.	
Florida Keys Water Quality Plan District Contact:	Ongoing	The strategies identified in the Florida Keys Water Quality Plan focus on eliminating water quality problems that are related to land-based activities in the Florida Keys. These problems may be caused by inadequate or	
Rhonda Haag		nonexistent treatment of storm water runoff and wastewater. The plan builds upon several other plans, notably the Water Quality Protection Program and the Management Plan for the Florida Keys National Marine Sanctuary, and focuses on restoration strategies and projects that could be initiated or assisted by the District.	
Indian River Lagoon Surface Water Improvement and Management (SWIM) Plan Documentation District Contact: Pat Gostel	Ongoing	This activity involves an update of the <i>Indian River Lagoon Surface Water Improvement and Management Plan</i> (SFWMD and SJRWMD, 1994). The Indian River Lagoon SWIM Project, a joint program administered with the St. Johns River Water Management District (SJRWMD), is designed to develop and execute a combination of research and practical implementation projects to protect or restore the environmental resources of the St. Lucie Estuary and the Indian River Lagoon. This update is currently under development with the	
		SJRWMD. The draft is scheduled to be submitted to the SFWMD Governing Board in June 2002.	
Lake Okeechobee SWIM Plan Implementation	Ongoing	This activity includes work required to ensure that the Surface Water Improvement and Management (SWIM) Plan – Update for Lake Okeechobee (SFWMD, 1997) is being implemented as intended. The next draft will be	
District Contact: Kim O'Dell		distributed in 2002.	
Public Works Construction			
Lake Okeechobee Water Retention/ Phosphorus Removal District Contact:	Revised schedule	Contracts for the plans and specifications for the two stormwater treatment areas (STAs) were initiated. Plans and specifications will be complete in FY 2002. Construction is scheduled to begin in FY 2003 and be completed in FY 2005. The other portion of this project includes the purchase of	
Jose Otero		conservation easements within four priority basins of Lake Okeechobee to increase water storage and improve water quality by restoring the hydrology of isolated wetlands and constructing detention areas. The isolated wetlands are scheduled for completion in FY 2003.	

Activity	Status	Comments
Western C-11 (S-9) Water Quality	On schedule	Water quality certification was obtained in July 2001. Plans and specifications
Treatment Project District Contact:		for Phase 2 were completed in July 2001. Construction for Phase 2 is scheduled to begin in FY 2002 and be completed in FY 2003. Construction for Phase 1 is under way and scheduled for completion in FY 2002.
Susan Ray		·
Lake Okeechobee Tributary Sediment Dredging	On schedule	This is part of the Lake Okeechobee Watershed Project. The project management plan was completed in July 2001. A watershed assessment will be a first step in the project implementation report. The solicitation for design
District Contact: Lewis Hornung		of the monitoring system is in progress and a contract is expected to be awarded in FY 2002.
Everglades Construction Project	On schedule	The District and the FDEP have set in motion a program that forms a
(ECP)	On sonoddio	comprehensive and consistent set of strategies to carry out the requirements of the Everglades Forever Act.
District Contact:		
Gary Goforth	Discontinued	This is not a District anniont Minori Dada County in the Local or areas of this
Pineland and Hardwood Hammock Restoration (C-111 Basin)	Discontinued	This is not a District project. Miami-Dade County is the local sponsor of this CERP project.
Taylor Creek/Nubbin Slough	On schedule	This is part of the Lake Okeechobee Watershed Project. The project
Reservoir and STA		management plan was completed in July 2001. A watershed assessment will be a first step in the project implementation report. The solicitation for design
District Contact:		of the monitoring system is in progress and a contract is expected to be
Lewis Hornung	Operation	awarded in FY 2002.
Operations and Maintenance of		ons and Maintenance
ECP	Ongoing	The operations and maintenance of the ECP is mandated by the Everglades Forever Act. This includes costs associated with the operations and maintenance of canals, levees, pipes, culverts, pump stations, and monitoring
District Contact: Gary Goforth		test cells within the ECP.
	T -	Regulation
Everglades Works of the District Permitting	Ongoing	The Federal Settlement Agreement and the Everglades Forever Act mandate the implementation of the Everglades Best Management Practice (BMP) Program for the Everglades Agricultural Area (EAA) to control phosphorus. In
District Contact: Sharon Trost		addition, the Everglades Forever Act mandates additional regulatory programs to include other water quality parameters and to include additional basins. The implemention of BMPs through this program has resulted in a 73% reduction in phosphorus loads in 2001. The 3-year rolling average indicates a 57%
Everglades Storm Water Program	Ongoing	reduction in phosphorus loads. The Everglades Storm Water Program (formerly known as the Non-ECP
District Contact: Sharon Trost		Initiative) was mandated by the Everglades Forever Act. The purpose of this program is to ensure that water quality standards are met at all structures that the District controls that pump water into, through, or from the Everglades Protection Area. This will be achieved through implementing the Non-ECP
		Permit, a combination of regulatory analysis, water quality improvement strategies, and solutions such as BMPs, or construction projects. Other components of the program include an education campaign, and developing a method for reimbursement of expenditures through a special
		assessment.
	Monito	ring and Evaluation
Lake Okeechobee Works of the District Permitting	Ongoing	The purpose of this activity is to inventory and permit all nondairy land uses in the priority basins of the northern Lake Okeechobee watershed. High
District Contact: Gary Ritter		phosphorus areas will be identified through water quality surveys, monitoring will be performed to ensure compliance with SWIM phosphorus discharge concentration limits, and corrective actions will be required on parcels that are
		out of compliance.
Kissimmee Basin Data Collection and Evaluation	On schedule	The 2000 Lake Okeechobee Bill requires an assessment of the sources of phosphorus from the Upper Kissimmee Chain of Lakes and their relative
District Contact:		contribution to the water quality of Lake Okeechobee. In addition, data evaluation and assessment efforts need to be conducted to meet the total
Joe Koebel ECP Research and Data Collection	Ongoing	maximum daily load (TMDL) and MFL requirements. This activity represents the ongoing research and data collection efforts on
		behalf of the ECP. The Everglades Forever Act and Federal Everglades
District Contact: Jennifer Jorge		Settlement Agreement, as well as permits and other legislation mandates require the District to conduct research, monitoring, and modeling activities.

Activity	Status	Comments
Everglades BMP Effectiveness Research	Ongoing	BMP research provides information on how to efficiently control pollutant releases from agricultural and other developed areas. The particular focus of this activity is on the prevention of phosphorus releases. Projects include
District Contact: Yongshan Wan		research on understanding phosphorus releases from the EAA soils to optimize fertilizer application rates, development of a baseline of water quality data for the C-139 Basin, evaluation of pesticide releases and toxicity, and evaluation of mercury releases and bioaccumulation. This activity also developed a chapter on BMPs for the 2001 Everglades Consolidated Report (SFWMD, 2001a), as required by statute.
404 Permit Research, Monitoring, and Modeling – Receiving Waters District Contact:	Ongoing	This activity assesses impacts of effluents from STAs on water quality (nutrients and toxins), soils, periphyton, and macrophytes. Predischarge (baseline) monitoring is complete. Postdischarge monitoring has been initiated. Research on hydrologic/nutrient effects on vegetation and soils is continuing.
Steve Smith		
Water Quality Monitoring – Florida Bay District Contact:	Ongoing	This activity supports monitoring of water quality throughout the Florida Bay region and monitoring of sea grass community in northeastern Florida Bay, Manatee Bay, and Barnes Sound. Impacts of changing freshwater flow and releases from the C-111 Canal are being assessed.
Dave Rudnick		
St. Lucie Estuary/Indian River Lagoon	Ongoing	This activity consists of monitoring, research, and implementation projects in support of the Indian River Lagoon SWIM Plan and Indian River Lagoon Restoration Feasibility Study. The Indian River Lagoon Restoration Feasibility
District Contact: Patti Sime		Study Plan is being completed for submission to the United States Congress in October 2002 for authorization and appropriation under the Water Resources Development Act (WRDA). Monitoring, research, and implementation activities continue with ad valorem and St. Lucie River Issue Team funding.
Lake Okeechobee Research and Data Collection District Contact: Karl Havens	Ongoing	This element includes the research- and monitoring-related activities being conducted in Lake Okeechobee and its watershed. This information is then fed to the planning and implementation projects to ensure that the District's restoration-related activities are based on sound and defensible science. The key activities include in-lake research devoted toward determining the impacts of water level, nutrients, and invasive plants; watershed research dealing with the fate and transport of phosphorus; modeling activities associated with the impacts of phosphorus in the watershed and the lake; BMPs associated with beef cattle operations; and monitoring activities to assess the effectiveness of the District's restoration efforts.
Water Quality Monitoring District Contact: Maxine Cheesman	Ongoing	The Water Quality Monitoring Program generates high quality chemical and physical data for assessing the status of South Florida's water resources, utilizing standardardized sampling and analytical procedures. The activities under this element provide data for evaluating water quality conditions and trends, assessing permit compliance and support other District programs. Data reporting provides summaries and written reports on water quality and hydologic conditions for planning and operaions, as well as to meet permit and legally mandated requirements.
Lower West Coast Water Quality Monitoring District	Ongoing	This activity encompasses water quality monitoring for LWC estuaries from Cape Romano to the Caloosahatchee River (Florida International University) and the inland water quality monitoring for the Big Cypress Basin (Collier
District Contact: Cecilia Weaver		County).
Core Objective WQ 2: Protect	and improve ground	
	<u> </u>	Planning
Water Preserve Area Feasibility Study	Behind schedule	The water preserve areas are intended to provide regional storage to assist in meeting the future water supply needs of all types of users - agricultural, urban, and environmental. The Water Preserve Area Feasibility Study
District Contact: Max Day		investigated and further developed conceptual designs developed under the C&SF Project Comprehensive Review Study (Restudy). The feasibility report will be completed in time to include in the proposed WRDA 2002 as originally planned.

Activity	Status	Comments
		Regulation
Water Use, Application, Compliance, and Criteria Development District Contact: Scott Burns	Ongoing	Water use permitting (consumptive use permitting) is a state mandated program assigned exclusively to the water management districts. The objective is to ensure safe, efficient, equitable, and reliable development of the state's water resources. The major components are 1) review and prepare recommendations for permit applications for all consumptive uses of water within the District boundaries; 2) provide postpermit compliance checks on priority projects based on staffing resources (approximately 300 projects per year); 3) review and issue well construction permits for specific water wells within District boundaries; and 4) perform water conservation rulemaking analysis and make recommendations. This activity also includes prepermit planning, permit issuance, dispute resolution, litigation support, technical support, enforcement, communication with water supply planning activities of this agency, and criteria and rule development.
		Outreach
Local Plan Review District Contact: P.K. Sharma	Ongoing	Local government comprehensive plans and amendments, and water control plans of drainage districts are reviewed by the District as required by Chapters 163 and 298, F.S. This review activity was significantly cut back during FY
	Ongoing	2001 to provide funding for the CERP.
Water Shortage Management District Contact: Bruce Adams	Ongoing	On November 29, 2000, the Governing Board declared a major water shortage due to the extended drought. Phase I emergency water shortage orders were issued for the LWC area on this date and on December 8, 2000 for the LEC area. On January 19, 2001, these Phase I restrictions were upgraded to Phase II severe water shortage restrictions. Because of continued drought conditions, on March 28, 2001, the District initiated modified Phase II emergency water shortage restrictions applicable to the LWC and LEC Areas. The drought conditions also affected inland agricultural areas and various water use restrictions were ordered in those areas. Because of favorable water resource conditions, water shortage orders were rescinded on October 11, 2001 for all areas of the District, except for certain portions of Orange County.
Wellhead Protection Programs	As needed	The FDEP has a number of regulations under the Florida Administrative Code that function to regulate hazardous and solid waste, stormwater discharges, storage tank systems, etc. The primary goal of these legislative policies is to prevent problems before they occur, as contrasted to correcting or providing remedial action for preexisting problems. The intent of these ordinances is to protect and safeguard the health, safety, and welfare of the public by providing criteria for regulating and prohibiting the use, handling, production, and storage of certain deleterious substances that may impair present and future public water supply wells and welfields. The District has and will continue to provide assistance to local governments in the preparation of their welfield protection ordinances. No wellhead protection activity has occurred since the last update of the DWMP.
Recharge Mapping	As needed	As directed by Chapter 373, F.S., the SFWMD provides ground water recharge information to local governments to assist them with the development and implementation of appropriate water resource policies. In order to accomplish this, the SFWMD undertook a project to map recharge areas within its four planning regions. This effort was completed in 1995. The maps delineate precipitation recharge and leakage rates for all the primary public water supply aquifers utilized throughout South Florida. The District has and will provide assistance to local governments in the delineation of prime recharge areas in order to implement voluntary tax assessment programs (under the Bluebelt Act) that protect the state's prime recharge areas. No recharge mapping was performed since the last update of the DWMP.
W. d. 10 is 15 is	lo , , , ,	Monitoring and Evaluation
Wetland Criteria Development Support District Contact: Debbie Goss	On scheduled	This activity supports the Regulation Program in developing a scientific basis for wetland protection criteria used in water use and environmental resource permitting. The activity was originated at the direction of the Governing Board and Executive Office of the SFWMD to develop a research and monitoring program to investigate impacts. This information is needed to support rulemaking for the LWC and UEC regions and is a critical element in the implementation of water supply plans for both regions.

Activity	Status	Comments
Lake Okeechobee ASR Pilot	Behind schedule	The Lake Okeechobee ASR Pilot Project Management Plan was approved in
Project		March 2001. Test wells have been constructed and hydrogeologic analyses of the wells will be completed in FY 2002.
District Contact:		·
Pete Kwiatkowski		

Part D. Natural Systems Management

The importance of natural systems management at the SFWMD has increased since the 1970s as a result of greater awareness of environmental issues. The land planning and environmental resource protection legislation enacted by the State of Florida over the past 30 years has required the District to place greater emphasis on regional ecosystem management. This portion of the DWMP describes the activities of the SFWMD in meeting the requirements of natural systems management. It is comprised of two core natural systems objectives:

Core Objective NS 1: Maintain the integrity and functions of water resources and related natural systems

Core Objective NS 2: Restore degraded water resources and related natural systems to a naturally functioning condition

Table 4. The FY 2001 Status of the DWMP Natural Systems Management Activities

Activity	Status	Comments		
Ohio ationa NO de Maintain the air		- A containing and a lated a storal contains		
Objective NS 1: Maintain the ii	Objective NS 1: Maintain the integrity and functions of water resources and related natural systems			
		Planning		
LEC MFLs	Completed	This project established MFLs for Everglades National Park, the Water		
		Conservation Areas (WCAs), Lake Okeechobee, and the Biscayne aquifer		
District Contact:		(except that portion of the aquifer located in southern Miami-Dade County).		
Joel Van Arman		This effort was required by Chapter 373, F.S.		
Rain-Driven Schedules for the	On schedule	The objective of this project is to develop rainfall-based delivery plans for the		
Everglades		WCAs and the Rotenberger Wildlife Management Area (WMA) as part of the LEC regional water supply planning process. This activity has both water		
District Contact:		supply and natural systems components. Work plan assessment tools and a		
Murray Miller		rainfall formula are being developed and water supply alternatives are being		
Ividitay ivillici		modeled. Implementation of the plan is targeted for FY 2003.		
Indian River Lagoon Restoration	Behind schedule	This study was authorized before the CERP and the project implementation		
Feasibility Study		report was scheduled for completion before the end of 2001, but it is now		
, ,		expected to be completed in the first half of 2002. This study is on schedule		
District Contact:		to meet the FY 2002 submittal of the final report to the United States		
David Unsell		Congress.		
Florida Bay MFLs	On schedule	This activity will determine MFLs for Florida Bay and predict the effects of		
,		restoration. This will be accomplished by determining the effects of high		
District Contact:		salinity on sea grass processes, survival, and production. This will include		
Dave Rudnick		both the collection of new data and the synthesis of existing information from		
		Florida Bay and other estuaries.		
Southwest Florida Feasibility Study	On schedule	The project management plan was completed and approved in July 2001 and		
		a cost-share agreement has been signed. During 2001, the regional modeling		
District Contact:		tools were developed. Also, the development of both water use demand		
Janet Starnes		projections and a regional simulation model for the study area were initiated.		
Kissimmee Basin MFL	Ongoing	This activity is for the development of MFLs for the Kissimmee Basin. By		
Development		2004, MFLs will be developed for the Kissimmee River, Lake Kissimmee, and		
		the Floridan Aquifer. By 2006, MFLs will be developed for the following lakes:		
District Contact:		Tohopekaliga, Alligator, Jackson, Rosalie, Cypress, Hatchineha, Pierce,		
Joe Koebel		Marian, and Fish.		
In-Lake Research on Water Level	Ongoing	Research is being conducted to determine operations that will minimize harm		
Impacts		to the natural ecosystem of Lake Okeechobee. This research involves		
District Contact:		controlled experiments to identify how lake stage affects growth and survival		
District Contact: Karl Havens		of submerged aquatic vegetation.		
Naii Havelis				

Activity	Status	Comments
Minimum/Maximum Flow Targets District Contact: Marion Hedgepeth	On schedule	This project is a joint venture between the SFWMD and Palm Beach County Environmental Resources Management. A new hydrodynamic circulation model will be developed. This model will provide a greater understanding of the circulation pattern within the Lake Worth Lagoon. This project would utilize sea grass communities within Lake Worth Lagoon as key indicators of the health and sustainability of ecosystems within the lagoon. A final report is scheduled
		by the end of June 2002.
Big Cypress Basin Watershed Management Plan District Contact:	Ongoing	The Big Cypress Basin Watershed Management Plan will provide a road map for development of capital projects for the construction and improvement of the facilities presently operated and maintained by the Big Cypress Board for fulfilling its mission on flood control, water supply, water quality, and natural
Ananta Nath		systems.
NA di Laberra di Laberra		and Acquisition
Wetlands Mitigation - K-Mart District Contact: Karen Smith	Ongoing	The K-Mart wetlands are to be acquired and restored through payments from permit applicants who contribute funds to the District in lieu of performing mitigation themselves or purchasing credits from a mitigation bank.
General Land Acquisition District Contact:	Ongoing	This activity will monitor District nonspecific land acquisition and disposal projects for other programs throughout the District and for external entities.
Fred Davis	0	00D - (1 1 - 1 00D 1 1 - 1
Stewardship Save Our Rivers (SOR) Lands	Ongoing	SOR stewardship will ensure that SOR lands are managed in a manner that is conducive to the maintenance of the integrity and functions of water resources and related natural systems. The activity includes operations and
District Contact: Fred Davis		maintenance, development of public use facilities, and some mitigation.
Wetland Mitigation - Corkscrew Regional Ecosystem Watershed (CREW) District Contact: Marjorie Moore	Ongoing	The CREW project is a SOR partnership project. The CREW Land and Water Trust is a private, not-for-profit organization dedicated to the preservation and stewardship of water resources and natural communities in and around the CREW. The trust coordinates the land acquisition, land management, and public use of the CREW lands. Since the CREW Land and Water Trust was formed in 1989, over 24,000 acres of the 60,000-acre project have been acquired through the District's SOR Program, Lee County, the Big Cypress Basin, the state's Conservation and Recreational Lands (CARL) Program, and mitigation funds. The 60,000-acre project spans Lee and Collier Counties and is the largest undisturbed watershed in southwestern Florida.
Wetlands Mitigation - DuPuis Reserve District Contact: Marjorie Moore	Ongoing	The Dupuis Reserve is a 21,875-acre SOR partnership project located between the J.W. Corbett WMA and Lake Okeechobee. The reserve is actively managed by the District and the Florida Fish and Wildlife Conservation Commission (FWC).
Wetlands Mitigation – Pennsuco	Ongoing	The Pennsuco Wetlands are being acquired and restored through payments
District Contact: Marjorie Moore		from permit applicants who contribute funds to the District in lieu of performing mitigation themselves or purchasing credits from a mitigation bank.
Wetlands Mitigation - Shingle Creek District Contact: Marjorie Moore	Ongoing	The Shingle Creek wetlands in southern Orange and northern Osceola Counties are being acquired and restored as mitigation for the Orlando Beltway Southern Connection. To date, 1,132 acres of the 7,655-acre project have been acquired.
Wetlands Mitigation - Upper Lakes Basin District Contact:	Ongoing	The Upper Lakes Basin wetlands are being managed through payments from permit applicants who contribute funds to the District in lieu of performing mitigation themselves or purchasing credits from a mitigation bank.
Marjorie Moore		

Activity	Status	Comments
		Regulation
Environmental Resource Permitting (ERP) District Contact: Terrie Bates	Ongoing	This ongoing activity involves the review of environmental resource permit applications. It includes the following: • Technical engineering and environmental review and evaluation of construction and conceptual plans for proposed development activities • Recommendations for project design changes to ensure proposed activities meet District criteria for flood, water quality, and environmental protection • Negotiations with permit applicants • Field inspections of project sites requesting permits or wetland determinations • Review of wetland mitigation plans • Preparation of requests for additional information • Preparation of technical staff reports • Compliance review of permitted sites • Compliance review of submitted documents required by permit special conditions • Administrative and automation support critical to the ERP Program
Wetland Criteria Development and Support District Contact: Debbie Goss	Ongoing	This activity supports the Regulation Program in developing a scientific basis for wetland protection criteria used in water use and environmental resource permitting. The activity was originated at the direction of the Governing Board and Executive Office to develop a research and monitoring program to investigate impacts to wetlands caused by water table drawdown and to develop specific recommendations for drawdown criteria that prevent significant adverse impacts. This information is needed to support rulemaking for the LWC and UEC planning regions and is a critical element in the implementation of the water supply plans for both regions.
Regulation Model Technology Development/Application	Ongoing	This activity supports the Regulation Program in developing computer applications and technology for use in the water use permitting process.
District Contact: Debbie Goss		
Environmental Operations Protocol District Contact: Peter Doring	Ongoing	Rules for low-level releases of water from Lake Okeechobee to the St. Lucie and Caloosahatchee Estuaries are being developed through this activity.
Feter Donnig	Mon	itoring and Evaluation
Lake Okeechobee Research and Data Collection District Contact: Karl Havens	Ongoing	This element includes the research- and monitoring-related activities being conducted in Lake Okeechobee and its watershed. This information is then used when projects are planned and implemented to ensure the District's restoration-related activities are based on sound and defensible science. The key activities include in-lake research on the impacts of water level, nutrients, and invasive plants; watershed research on the fate and transport of phosphorus; modeling activities associated with the impacts of phosphorus in the watershed and the lake; BMPs associated with beef cattle operations; and monitoring activities to assess the effectiveness of restoration efforts.
Indian River Lagoon Sea Grass Monitoring District Contact:	Ongoing	Sea grasses have been identified as a valued ecosystem component for the Indian River Lagoon. This effort will obtain a current inventory of sea grass resources, identify healthy areas that may deserve special protection efforts, and identify potential problem areas that require further investigation.
Becky Robbins Objective NS 2: Restore degra	l ded water resources	and related natural systems to a naturally functioning condition
Lake Okeechobee SWIM Plan Implementation District Contact: Kim O'Dell	Ongoing	Planning This activity includes work required to insure that the Surface Water Improvement and Management (SWIM) Plan – Update for Lake Okeechobee (SFWMD, 1997) is implemented. The next update will be completed in 2002.
Rain-Driven Schedules for the Everglades District Contact: Murray Miller	On schedule	The objective of this project is to develop rainfall-based delivery plans for the WCAs and the Rotenberger WMA as part of the LEC regional water supply planning process. This activity has both water supply and natural systems components. Work plan assessment tools and a rainfall formula are being developed and water supply alternatives are being modeled. Implementation of the plan is targeted for FY 2003.

Activity	Status	Comments
Establish Ecological and Hydrologic		The effects of water level, flow, and water quality on key performance
Needs for the Everglades	0.1.00.1.000.10	measures of sloughs and wet prairies will be determined through this activity.
Protection Area		Plant community structure and productivity will be measured and
. 10.00.00		recommendations for the restoration of these communities will be made.
District Contact:		RECOVER (Restoration Coordination and Verification) conceptual models will
Fred Sklar		be assessed through measurements of baseline status, history, and
		development of ridge and slough landscape.
South Miami-Dade County	Discontinued	This activity was eliminated due to budget constraints.
Integrated Water Resource		
Strategy		
Biscayne Bay SWIM Plan Update	No action	The last update of the Biscayne Bay SWIM Plan was published in 1995
Discayine Day Grammi ian epuane	l to doub	(SFWMD, 1995). The District participated in the Biscayne Bay Partnership
District Contact:		Initiative and received \$6 million from the Florida Legislature in 2001 for
Trisha Stone		implementation activities. A \$15 million list of projects was submitted to the
Thoma Storie		legislature by the Biscayne Bay Regional Restoration Coordination Team in
		December 2001.
	La	and Acquisition
Kissimmee River Restoration Land	Ongoing	This activity will enable the District to acquire the approximately 50 property
Acquisition		ownerships (fee and flowage easements as applicable) for the Kissimmee
•		River Restoration Project by the specified deadline. This element includes
District Contact:		costs for specified infrastructure relocations (e.g., highways).
Blair Littlejohn		
	Public	Works Construction
Western C-4 Structure Critical	Revised schedule	Construction began in FY 2001 and is scheduled for compeletion in FY 2002.
Project		
,		
District Contact:		
Jorge Marban		
Tamiami Trail Culverts (West)	Revised schedule	Survey for roadwork design and the draft monitoring plan has been completed.
Critical Project		The awarding of the construction contract is scheduled for FY 2002 and
•		construction should be completed in FY 2004.
District Contact:		, , , , , , , , , , , , , , , , , , , ,
Clarence Tears		
Lake Trafford Restoration	Revised schedule	Sediment testing for dredging has been completed. Project plans and
		specifications have been completed. A species protection plan has been
District Contact:		completed. Land certification was received. Construction is scheduled to begin
Clarence Tears		in FY 2002 and be completed in FY 2005.
C-111 Project Implementation	On schedule	The C-111 Project consists of both structural and nonstructural modifications
- · · · · · · · · · · · · · · · · · · ·		to the existing works within the C-111 Basin to promote more natural
District Contact:		hydroperiods in Taylor Slough and the eastern panhandle ecosystems of
Lisa Smith		Everglades National Park. Flood protection within the C-111 Basin east of the
		L-31N and C-111 Canals will be maintained. The land acquisition is 90%
		complete and the general reevaluation report supplement is under
		development.
Modified Water Deliveries	On schedule	This activity will implement the Modified Water Deliveries Project, which is
		designed to restore hydrologic balance between western Shark River Slough
District Contact:		and northeastern Shark River Slough. This will benefit Everglades National
Dave Swift		Park flora. The detailed design of the recommended plan has been initiated.
Florida Keys Tidal Restoration	Behind schedule	The Project Delivery Team Kick-Off Meeting was held to initiate the project
		management plan development process. The draft project management plan
District Contact:		has been completed. The project management plan is expected to be
Dewey Worth		completed in FY 2002.
S-356 Structures (Miami-Dade	On schedule - not yet	This activity is part of the Everglades National Park Seepage Management
County)	started	Project. The project is scheduled to begin in FY 2006.
Additional S-345 Structures	On schedule - not yet	This is part of the WCA-3 Decompartmentalization and Sheetflow
, taditional of one officiality	started	Enhancement - Part 2 Project. It is scheduled to begin in FY 2006.
G-404 Pump Station Modifications	On schedule - not yet	This is part of the Flow to Northwest and Central WCA-3A Project. It is
G-404 Fump Station Mounications		· · · · · · · · · · · · · · · · · · ·
	started	scheduled to begin in FY 2003.

Activity	Status	Comments
Southern Golden Gate Estates	Revised schedule	The project management plan was was approved in March 2001. A conceptual
Hydrologic Restoration		restoration plan was developed during 2001. The primary components of the
, ,		restoration plan are land acquisition, construction of pumping stations, canal
District Contact:		plugs, road work, ecological and hydrological monitoring, and adaptive
Ananta Nath		management. An ecological and hydrological monitoring program will be
7 maria ram		initiated to determine the effectiveness of the project, and adaptive
		management practices will ensure desirable ecological responses. The project
		implementation report for this project is scheduled for completion in FY 2002.
Lake Worth Lagoon Restoration	Revised schedule	This is part of the North Palm Beach County - Part 1 Project. The Project
Lake Worth Lagoon Restoration	Revised scriedule	Delivery Team Kick-Off Meeting was held to initiate the project management
District Contact:		plan development process. Work is in progress to complete the project
Michael Voich		
Wildrider Voich		management plan in FY 2002. Approval was granted to move forward with
		work on the L-8 Test Reservoir prior to approval of the project management
		plan in order to capture and store water for the upcoming dry season and to
	<u> </u>	gather data necessary for the project implementation report.
Kissimmee River Restoration	Combined with the	
Design	project below	
Kissimmee River Restoration	Ongoing	This activity supports the District's participation with the USACE in the
Engineering Designs and		analysis and design of project construction elements for meeting flood
Implementation		protection constraints and ecosystem restoration goals for the Kissimmee
		River Restoration Project.
District Contact:		
Paul Whalen		
	Opera	ations and Maintenance
Everglades Exotic Species Control	Ongoing	This activity provides for the elimination and monitoring of exotic plants within
		the Everglades. The biannual survey showed that melaleuca is decreasing,
District Contact:		Australian pine and Brazilian pepper are stable, and lygodium is increasing.
Dan Thayer		
Holey Land WMA Regulation	Revised schedule	This project consists of a modification to the current operating plan for the
Schedule		Holey Land WMA. The project is scheduled to begin in FY 2004.
District Contact:		
Steve Smith		
Rotenberger Regulation Schedule	Revised schedule	This project consists of a modification to the current operating plan for the
		Rotenberger WMA. This project is scheduled to begin in FY 2004.
District Contact:		
Steve Smith		
Lake Okeechobee Exotic Control	Ongoing	This activity is for control of exotics within Lake Okeechobee. Control of
		melaleuca and torpedo grass, along with other exotic plants, is critical for the
District Contact:		preservation and restoration of Lake Okeechobee. If not managed, plants like
Dan Thayer		torpedo grass form dense monocultures, displacing all other plant
		communities.
	Mon	itoring and Evaluation
STA/Everglades Nutrient Removal	On schedule	This activity includes 1) field collection and laboratory analysis of water quality,
(ENR) Project Optimization,		vegetation, and sediment samples associated with research and monitoring
Research, and Modeling		efforts of the ENR Project; 2) development and implementation of the Wetland
		Water Quality Model; 3) analysis of nutrient removal performance data from
District Contact:		other South Florida wetlands; and 4) optimization experiments that will be
Jennifer Jorge		conducted in the ENR test cells. This work is a part of the District's STA
00		Optimization Research Program. The District is mandated by the Everglades
		Forever Act to conduct research on optimizing performance of the STAs.
Florida Bay Research - Sea Grass	On schedule	This research activity will measure the effects changes in timing and the
Mortality and Algal Blooms	On Somodule	amount of freshwater flow to Florida Bay has on sea grass habitat viability and
Initiality and Algai Bioons		, ,
District Contact:		restoration. This activity will also measure algal bloom response, including
District Contact:		spatial extent, persistence, occurrence of harmful blooms, and impacts on
Dave Rudnick		other living resources (benthos, sea grasses, and fisheries). This activity will
		also provide recommendations on water management operations that will
		achieve the restoration of habitat and water quality within Florida Bay.

Activity	Status	Comments
Florida Bay - Ecological Response to Restoration Activities District Contact: Dave Rudnick	On schedule	This activity supports research studies that will determine the ecological response of Florida Bay to restoration activities. The ecological conditions of the southeastern Everglades will be monitored to determine the effects of changes in water flow and hydroperiod associated with structural and operational changes. Research will also include the measurement of nutrient inputs from the C&SF Project; determination of the nutrient cycle (nutrient transport, transformation, retention, and release) for the wetlands, including the salinity transition zone of Florida Bay; and the determination of the amount of nutrient loading to Florida Bay. In the C-111 Basin and Taylor Slough, plant community composition and productivity and soil accretion or loss will be measured. Spatial and temporal changes in periphyton and water quality conditions in response to hydrologic restoration in the southern Everglades will be monitored.
Kissimmee Basin Restoration and Assessment District Contact: Lou Toth	Ongoing	Research and evaluation data will be used to evaluate the success of the Kissimmee River Restoration Project, fine tune reconstruction phases, and provide for adaptive management of the restored ecosystem. Outputs include publications, technical reports, and presentations. Preconstruction baseline monitoring and evaluation has been completed and post Phase I reconstruction monitoring has been initiated. An independent scientific advisory panel has met to review the baseline information and has provided a peer review. The panel was generally complimentary on the progress to date.
Everglades Food Web/Wading Birds Hydrologic Effect District Contact: Dale Gawlik	Ongoing	This effort will generate a series of scientific publications: 1) analysis of systematic reconnaissance flight wading bird surveys from former contracts and other agencies to determine wading bird distributions and identify depth thresholds that preclude wading birds from feeding successfully; 2) scientific publication examining the amount of movement various species of wading birds exhibit as an indication of how likely they are to be affected by local restoration projects; 3) reports and scientific publications that define fish and aquatic macroinvertebrate populations in the WCAs; 4) scientific publications containing recommendations for water depths and durations that promote the existence of healthy tree islands and associated wildlife; 5) annual reports on the numbers of nesting wading birds in South Florida; and 6) scientific publications of test cell experiments to identify the optimum and minimum water depths necessary for successful foraging. The 2001 South Florida Wading Bird Report (Ogden, 2001) has been completed.
Hydrologic Monitoring District Contact: Robb Startzman	Ongoing	Long-term hydrometeorologic data collection, database management, routine data reporting, and data evaluation actvities. Features of these actvities include installation of new sites, maintenence of existing sites, data collection, processing and archiving and maintenence of the environmental corporate database for storage and acess to these data. These data document the operation of the C&SF Project, provide data for the CERP, for Kissimmee River, Everglades, Florida Bay, and Lake Okeechobee restoration, and for water supply planning and implementation.
Monitoring and Evaluation (RECOVER) District Contact: John Ogden	Ongoing	RECOVER is a systemwide program designed to organize the highest quality scientific and technical support during the implementation of the CERP. It links science and the tools of science to a set of systemwide planning, evaluation, and assessment tasks. RECOVER is composed of six interagency, interdisciplinary task teams and a coordinating leadership group. The program management plan for RECOVER was completed in May 2001, and an annual report card will be issued in FY 2002. Also being managed under RECOVER is the approximately \$10 million per year authorized in WRDA 2000 for monitoring and assessment. A Systemwide Monitoring and Assessment Plan is being developed and will be completed in FY 2002.
Lake Okeechobee Research and Data Collection District Contact: Karl Havens	Ongoing	This element includes the research- and monitoring-related activities being conducted in Lake Okeechobee and its watershed. This information is then used when projects are planned and implemented to ensure the District's restoration-related activities are based on sound and defensible science. The key activities include in-lake research on the impacts of water level, nutrients, and invasive plants; watershed research on the fate and transport of phosphorus; modeling activities associated with the impacts of phosphorus in the watershed and the lake; BMPs associated with beef cattle operations; and monitoring activities to assess the effectiveness of restoration efforts.